



FortiAP 223C

QuickStart Guide



December 18, 2017

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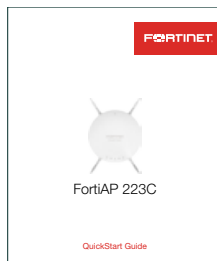
Fax: 1 408 235 7737

Email: register@fortinet.com

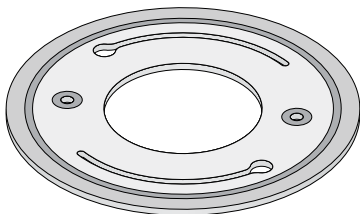
Box Includes



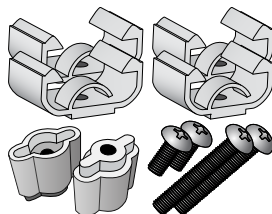
FortiAP 223C



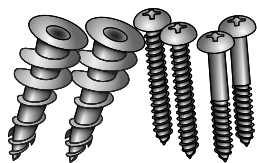
QuickStart Guide



Mounting Bracket



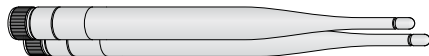
T-Rail Mounting Hardware Kit



Wall/Ceiling Mounting Hardware Kit



Two 5 GHz Antennas



Two 2.4 GHz Antennas

Before You Begin

Write down details that you may need from your network administrator or ISP.

DSL PPPoE

Username

Password

Cable Modem DHCP

It is normal to not require a hostname, but your ISP may require it.

Hostname

Static IP address

IP Address

Subnet Mask

Default Gateway

Primary/Secondary DNS

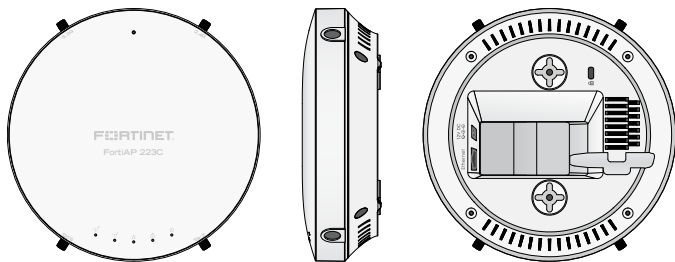


QuickStart Guide Video

<http://video.fortinet.com/video/38/fortigate-and-fortiwifi-quick-start-guide-5-0>

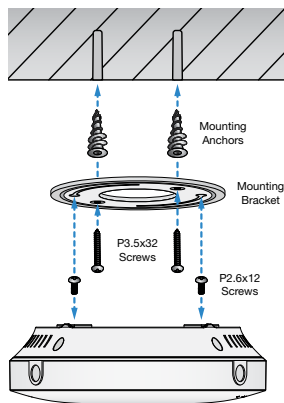
1 Installation

The unit can be mounted on a [wall or ceiling](#) using the provided [wall/ceiling mounting hardware kit](#), and to an appropriate [ceiling](#) using the [T-rail mounting hardware kit](#).



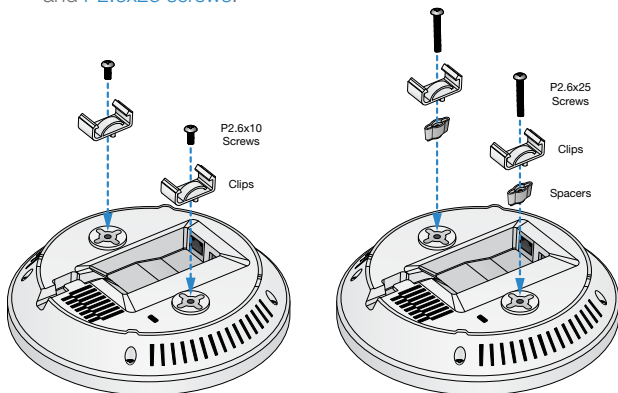
To attach the unit to a wall or ceiling

1. Select an appropriate location, then mark the locations on the [wall or ceiling](#) where the [anchors](#) will be inserted.
2. [Drill](#) the mounting holes, then insert the [anchors](#) into the holes.
3. Attach the [mounting bracket](#) to the anchors using two [P3.5x32 screws](#).
4. Insert two [P2.6x12 screws](#) into the bottom of the unit, leaving enough of the screws exposed so that the unit can be mounted to the [mounting bracket](#). If extra space is required between the unit and the [mounting bracket](#), use the [spacers](#) and [P2.6x25 screws](#) from the [T-rail mounting hardware kit](#).
5. Mount the device on the mounted [mounting bracket](#) then rotate it [clockwise](#) to secure it in place.



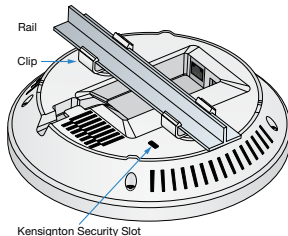
To attach the unit to a T-rail

1. Attach the **T-rail clips** to the bottom of the unit using two **P2.6X10 screws**.
If extra space is required to accommodate drop ceiling tiles, use the provided **spacers** and **P2.6x25 screws**.



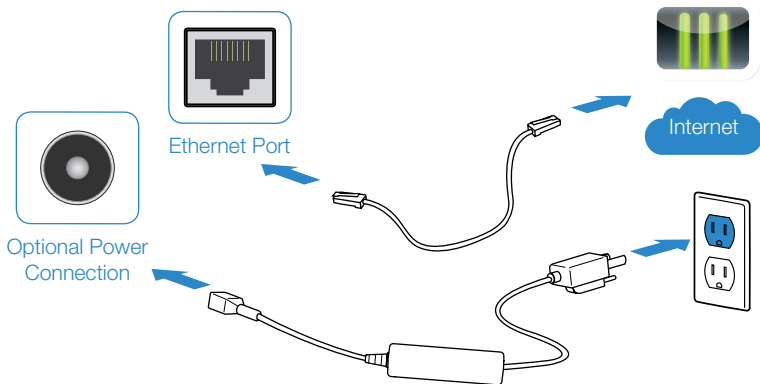
Note: Two sizes of **T-rail clips** are included in the mounting kit: **2.38cm (15/16in)** and **1.43cm (9/16in)**.

2. Line up the connected **T-rail clips** with an appropriately sized rail, then **press** the unit into the rail until it **snaps** into place.



Note: To protect your device from unauthorized removal, use the **Kensington Security Slot** to attach a **cable lock** (not included).

2 Basic Connections



Connect your FortiAP device to a [FortiGate controller](#) or an [Internet connection](#).

If you are using [Power over Ethernet \(PoE\)](#), ensure that the cable is connected to an applicable port on your [FortiGate](#) device or [PoE injector](#).

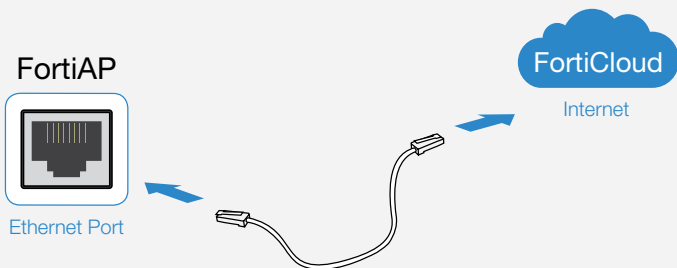
Optionally, connect your device to a [power outlet](#) using the optional power adapter.

Caution: Adequate [grounding](#) must be provided to the FortiAP unit in compliance with your [local electrical code](#) or [regulations](#).

Warning: This device complies with [IEEE 802.3af](#) PoE specification. Do not use any [PoE injectors](#) that are not [IEEE 802.3af compliant](#) as they may damage your device.

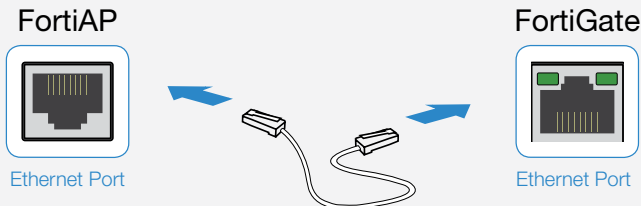
3 FortiAP Setup

A Cloud provisioning with FortiCloud



OR

B FortiGate secured on local network

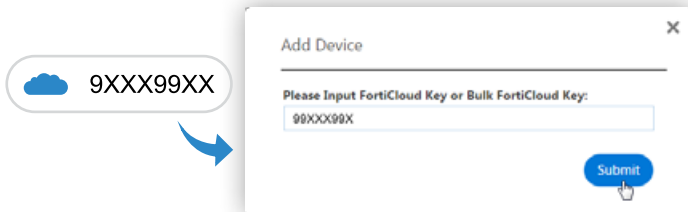


FortiAP Setup Video

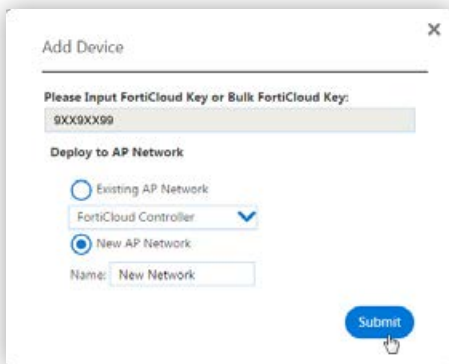
<http://video.fortinet.com/video/92/basic-fortiap-setup>

A FortiCloud

1. Visit <http://www.forticloud.com> and [sign in](#) or [create a new account](#).
2. Click the “Add Device” link, enter the [unique FortiCloud key](#) located on your FortiAP device, then click [Submit](#).



3. Deploy the FortiAP to an existing AP network, or create a new AP network, then click [Submit](#).



4. Follow the prompts to associate the [FortiAP](#) device to an [SSID](#).
5. Connect your FortiAP to an [Internet connection](#). This can be a modem or another source of Internet connectivity. The FortiAP will self-configure.

B Deployment through a FortiGate

If your FortiGate is on the same network as your FortiAP:

1. Preauthorize your FortiAP device using your FortiGate. If you are not familiar with deploying a FortiAP using your FortiGate, refer to the “Access Point Deployment” section of the [Deploying Wireless Networks Guide](http://docs.fortinet.com) found at <http://docs.fortinet.com>.
2. Plug your FortiAP into your local Ethernet connection. The FortiAP will self-configure.

Or

1. Instead of preauthorizing, you can authorize your FortiAP via the FortiGate after you have connected the FortiAP to your local [Ethernet](#).
2. Within [two minutes](#) of connecting the FortiAP to your FortiGate, the device will appear on the [Managed FortiAP](#) page in the [Web-based Manager](#): authorize and assign a profile to the device.



If your FortiGate is not on the same network as your FortiAP:

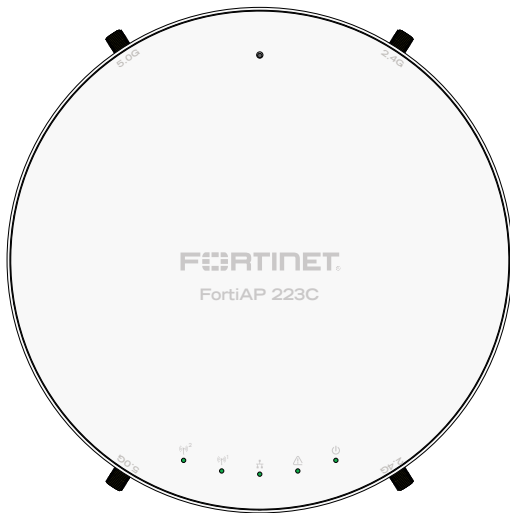
1. [Log in](#) to the FortiAP directly (IP address: [192.168.1.2](#)) with username [admin](#) and [no password](#), and specify the [IP address](#) of the controlling FortiGate.
2. Connect to the FortiAP via the [CLI](#) using the instructions in the “[Connecting to FortiAP CLI](#)” section of the [Deploying Wireless Networks guide](#).
3. Specify the [IP address](#) of the controlling FortiGate:

```
cfg -a AC_IPADDR_1=0.0.0.0
```

```
cfg -c
```

where [0.0.0.0](#) is the address of the FortiGate.

4. The FortiAP will connect to the FortiGate, and then you can [authorize](#) the FortiAP.



Ethernet Port

- Green: Connected at 1Gbps
- ☀ Flashing Green: Transmitting & receiving data at 1Gbps
- Amber: Connected at 10/100Mbps
- ☀ Flashing Amber: Transmitting & receiving data at 10/100Mbps
- Off: No link established

Wireless Radios

- Green: Wireless radio enabled
- ☀ Flashing Green: Transmitting & receiving data
- Off: Wireless radio disabled

Power

- Green: The unit is on
- ☀ Flashing Green: Booting up
- Off: The unit is off

Status

- Green: The unit is being managed by a FortiGate controller
- Amber: A FortiGate controller has been found but the unit is not being managed
- ☀ Flashing Amber: Error in connecting to the FortiGate controller
- Off: FortiGate controller not found

Device Guide



Kensington Security Slot

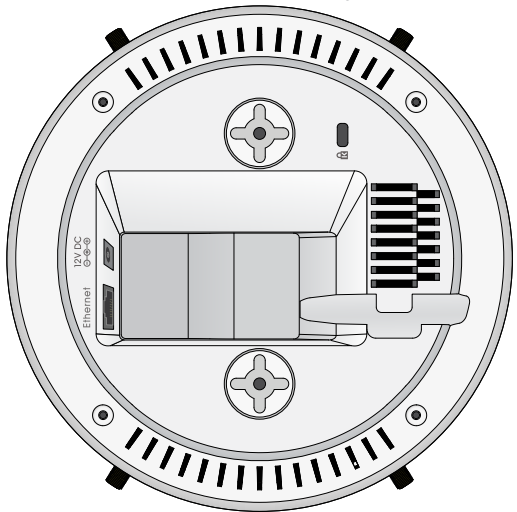
Anti-theft security slot for connecting lock-and-cable apparatus

Power

Optional power adapter connection
12V DC, 1.25A

Ethernet Port (RJ-45)

Gigabit Ethernet port with PoE powered device (PD) support



Wireless Radios

Radio 1: 802.11 b/g/n at 300 Mbps

Radio 2: 802.11 a/n/ac at 867 Mbps

Cautions and Warnings

Environmental Specifications

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude).

Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

Safety

Caution: This equipment is to be used in a Network Environment 0 per IEC/ET 62101. This product is connected only to PoE networks without routing to the outside plant.

Attention: Ce matériel doit être utilisé dans un Environnement Réseau 0 par IEC/ET 62101. Ce produit est uniquement connecté aux réseaux PoE sans installation externe de routage.

This product is intended to be supplied by a Listed Direct Plug-In Power Unit marked LPS or Class 2 and rated 12 Vdc, 2 A or by 48 Vdc from PoE source.

Le produit doit être alimenté par un bloc d'alimentation à courant continu homologué UL de 12 Vdc, 2 A nominal marqué LPS ou Class 2 ou par une source d'alimentation par Ethernet de 48 Vdc (PoE).

Regulatory Compliance

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

WARNING: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Caution: Operation of this device is restricted to indoor use only.

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (B) / NMB-3 (B)

Industry Canada (IC RSS) – Canada

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20cm de distance entre la source de rayonnement et votre corps.

Caution: The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems. High-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Attention: Le dispositif de la bande 5150-5250 MHz est réservé à un usage intérieur afin de réduire l'interférence nuisible potentielle aux systèmes mobiles par satellite co-canal. Les radars à haute puissance sont désignés comme utilisateurs principaux (à savoir les utilisateurs prioritaires) des bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer des interférences et / ou endommager les périphériques LE-LAN.

This device has been designed to operate with an antenna having a maximum gain of 3 dBi for 2.4 GHz and 3 dBi for 5 GHz. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Ce dispositif a été conçu pour fonctionner avec une antenne ayant un gain maximal de 3 dBi pour 2,4 GHz et 3 dBi pour 5 GHz. Une antenne ayant un gain supérieur sont strictement interdites par la réglementation d'Industrie Canada. L'impédance d'antenne requise est de 50 ohms.

Conformément à la réglementation d'Industrie Canada, cet émetteur radio peut fonctionner seulement avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique aux autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication réussie.

Professional installation instruction

1. Installation personnel

This product is designed for specific application and needs to be installed by qualified personnel who has RF and related rule knowledge. The general user shall not attempt to install or change the settings.

2. Installation location

The product shall be installed at a location where the radiating antenna can be kept 20cm from nearby person in normal operation condition to meet Regulatory RF exposure requirement. The installation applies to both indoor and outdoor location.

3. External antenna(s)

Use only the antenna(s) that have been approved by the manufacturer. The non-approved antenna(s) may produce unwanted spurious or excessive RF transmitting power that may lead to the violation of FCC/IC limit and is prohibited.

4. Warning

Please carefully select the installation position and ensure that the final output power does not exceed the limit set forth in relevant rules. The violation of the rule could lead to serious federal penalty.

Instructions d'installation professionnelle

1. Installation

Ce produit est conçu pour un usage spécifique et doit être installé par un personnel qualifié maîtrisant les radiofréquences et règle similaires. L'utilisateur ne doit pas tenter d'installer ou de modifier les paramètres.

2. Emplacement d'installation

En usage normal, afin de respecter les exigences réglementaires concernant l'exposition aux radiofréquences, ce produit doit être installé de façon à respecter une distance de 20cm entre l'antenne émettrice et. L'installation s'applique aux emplacements intérieur et extérieur.

3. Antenne externe(s)

Utiliser uniquement l'antenne (s) approuvées par le fabricant. L'utilisation d'autres antennes peut conduire à un niveau de rayonnement essentiel ou non essentiel dépassant les niveaux limites définis par FCC/IC, ce qui est interdit.

4. Avertissement

Choisir avec soin la position d'installation et s'assurer que la puissance de sortie ne dépasse pas les limites en vigueur. La violation de cette règle peut conduire à de sérieuses pénalités fédérales.

European Conformity (CE) – EU

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



The product transmits within the frequency ranges and less than or equal to the power listed below:
2412-2472 MHz less than 20 dBm
5180-5240 MHz less than 20 dBm
5260-5320 MHz less than 20 dBm *
5500-5700 MHz less than 20 dBm *

Note: * Only with DFS bands certification.

Simplified EU Declaration of Conformity

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Български

Този продукт е в съответствие с Директива 2014/53/ЕС.

Česky

Tento produkt je v souladu se směrnici 2014/53/EU.

Dansk

Dette produkt er i overensstemmelse med direktiv 2014/53/EU.

Deutsch

Dieses Produkt entspricht der Richtlinie 2014/53/EU.

Eesti

See toode vastab direktiivile 2014/53/EL.

English

This product is in compliance with Directive 2014/53/EU.

Español

Este producto cumple con la Directiva 2014/53/UE.

Ελληνική

Το προϊόν αυτό συμμορφώνεται με την Οδηγία 2014/53/ΕΕ.

Français

Ce produit est conforme à la Directive 2014/53/UE.

Hrvatski

Ovaj proizvod je u skladu s Direktivom 2014/53/EU.

Italiano

Questo prodotto è conforme alla Direttiva 2014/53/EU.

Latviski

Šis produkts atbilst 2014/53/EU Direktīvu.

Lietuvių

Šis gaminys atitinka direktyvą 2014/53/ES.

Malti

Dan il-prodott huwa konformi mad-Direttiva 2014/53/UE.

Magyar

Ez a termék megfelel a 2014/53/EU irányelvnek.

Nederlands

Dit product is in overeenstemming met Richtlijn 2014/53/EU.

Norsk

Denne produktet er i samsvar med direktiv 2014/53/EU.

Polski

Ten produkt jest zgodny z dyrektywą 2014/53/UE.

Português

Este produto está em conformidade com a Diretiva 2014/53/UE.

Rumunski

Acest produs este în conformitate cu Directiva 2014/53/UE.

Slovensky

Tento produkt je v súlade so smernicou 2014/53/EÚ.

Slovensko

Ta izdelek je v skladu z Direktivo 2014/53/EU.

Suomi

Tämä tuote on direktiivin 2014/53/EU mukainen.

Svenska

Denna produkt överensstämmer med direktiv 2014/53/EU.

Note: The full declaration of conformity for this product is available in the link below:

<https://site.fortinet.com/ProductRegulatory/EU>

Voluntary Control Council for Interference (VCCI) – Japan

この装置は、クラスB機器です。この装置は、住宅環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

V C C I – B

Agência Nacional de Telecomunicações (ANATEL) – Brazil

Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.



Para maiores consultas sobre ANATEL consulte o site: www.anatel.gov.br

Korea Certification (KC) – Korea

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